

EXTENDED SUPPLY AND USE TABLES AND TIVA INDICATORS

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PUBLICACTION OF THE EXTENDED SUPPLY AND USE TABLES

The **Extended Supply** and **Use Tables** are **integrated** of the following profiles:

- Export Focus
- Owner Focus
- Economic Unit Size
- Integrated Focus

Integrated Focus is opened of the Exporter Focus into the **owner focus** and **economic unit size** in a **single table** for both supply and use.

The dissemination of the four extensions at the sector level and by establishment took place on:



November 14th 2018



EXTENDED SUPPLY AND USE TABLES



TERMS OF REFERENCE OCDE



Terms of Reference (ToR) specify that the methods and extensions proposed are adaptable to the needs of each economy. Therefore, the next conditions showed of the extension are based on the availability of sources of information and the confidentiality required by them:



- ToR OCDE: by firm.
- ToR OCDE: by rows (products) and columns. (industries)
- ESUT Mexico: by establishment.
- ESUT Mexico: by columns (industry).

- ToR OCDE: export focus, ownership focus and size classes focus.
- ESUT Mexico: export focus, ownership focus and size classes focus and integrated focus.

CATEGORIES BY EXTENSION

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Export Focus

ToR OCDE:

- Exporter
- Non Exporter

ESUT Mexico:

- Exporter
- Non Exporter Formal
- Non Exporter Informal

Ownership Focus

ToR OCDE:

- Foreign Owned
- Domestically owned MNE
- Domestic Owned

ESUT Mexico:

- Domestic Owned
- Affiliate Domestic Owned
- Foreign Owned
- Affiliate Foreign Owned

ToR OCDE:

- Foreign
 - Owned
- Domestically
- owned MNE
- Domestic
 Owned (Small)
- Domestic
 Owned
 (Medium)
- Domestic
 - Owned (Large)

ESUT Mexico:

- Export Focus
 - o Domestic Owned
 - ✓ Small
 - ✓ Medium
 - ✓ Large
 - o Affiliate Domestic Owned

Hybrid/Integrated Focus

- ✓ Small
- ✓ Medium
- ✓ Large
- o Foreign Owned
 - ✓ Small
 - ✓ Medium
 - ✓ Large
- o Affiliate Foreign Owned
 - 🗸 Small
 - ✓ Medium
 - ✓ Large
- Non Export Focus
 - Formal
 - o Informal



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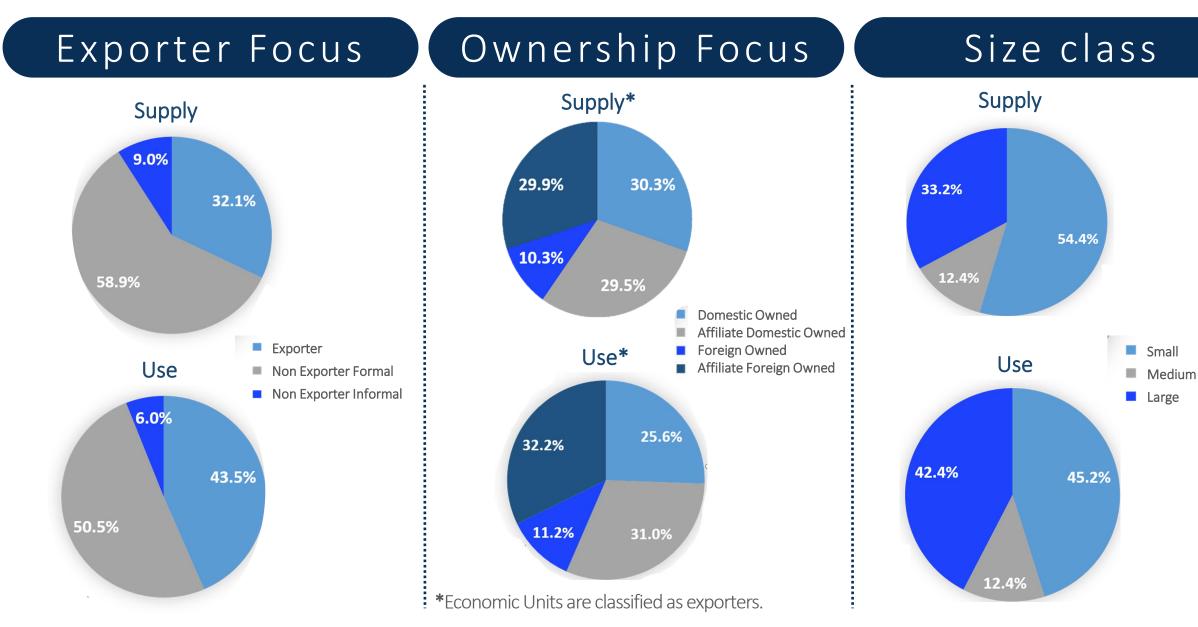
ESUT Mexico:

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EXTENDED SUPPLY AND USE TABLES (ADVANCES)

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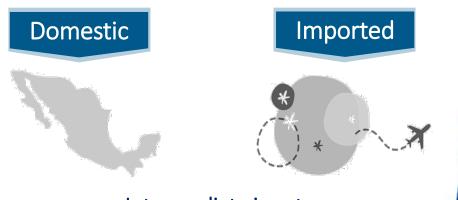


DOMESTIC AND IMPORTED INTERMEDIATE CONSUMPTION EXPORT FOCUS

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The goal of this disaggregation is to show the origin of the goods and services used to carry out the production of the establishments identified as Exporters (EF).

The origin of intermediate goods and services will be presented in two aggregates:



Intermediate inputs



SUMMARY OF **RESULTS**



E.S

Export Focus

The Economic Unit (EU) of the Export Focus consumed **19%** of **domestic inputs** and **24.5%** of **imported inputs** to carry out the production for exports and for the domestic market.



Non Export Focus

To carry out the production of the EU with a Non-Export Focus, **12.9% of imported inputs** and **43.6% domestic inputs** were used.

VALUE ADDED COMPONENTS EXPORTERS

The ESUT 2013 **publication,** specifically in the Use Table, covers all characteristics and components of traditional Use Table except for **value added** components that were **not extended**.

For this reason, the importance of complement and strengthen the publication to offer detailed information to users. To be completed and published at the end of the year.

| | Sector | | | |
|--|--------|---|-----------------------------|--|
| Use Table. Export Focus | | | Non Informal Exporter | |
| VALUE ADDED AT BASIC PRICES | - | - | - | |
| Total compensation of employees | - | - | - | |
| Wages and salaries including effective social security contributions | - | - | - | |
| Salaries | - | - | - | |
| Wages | - | - | - | |
| Effective social security contributions | - | - | - | |
| Other social benefits | - | - | - | |
| Taxes net of subsidies on production | - | - | - | |
| Taxes levied on its activity | - | - | - | |
| Less: subsidies | - | - | - | |
| Gross Operating Surplus | - | - | - | |
| TOTAL PRODUCTION AT BASIC PRICES | - | - | - | |
| | | | | |

TIVA INDICATORS TO NORTH AMERICA REGION



SUPPLY AND USE TABLES

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Based on the National **Supply and Use Tables** (SUT) prepared by each partner country in the region, the regional SUTs are constructed.

Compilation

- The available information about SUT, IOT and external trade are compiled by country.
- Valuations and structures are analyzed and adjusted.
- The number of industries and products are harmonized.
- A conversion to US dollars is made according to the IMF exchange rate.



SUPPLY AND USE TABLES **REGIONAL**

Regional SUT

According to methodology, there are two models Endogenous and exogenous, they are used to construction of Regional Supply and Use Tables that support regional matrices and TiVA indicators.

In our case used exogenous model.

Finally, they are balanced, and it is ensured that they coincide with the relevant accounting restrictions to obtain symmetric SUT's. 1

2

Adapt and adjust the information for each country in a symmetric matrix (NK*KN)¹.

Determine the taxes by difference through the values at purchaser prices vs basic prices of the Use Table.

3

The dimensions of final demand by product are adjusted, maintaining their categories.

The dimensions of value added by industry are adjusted.

1. N: Country, K: Industry.

INPUT-OUTPUT TABLES

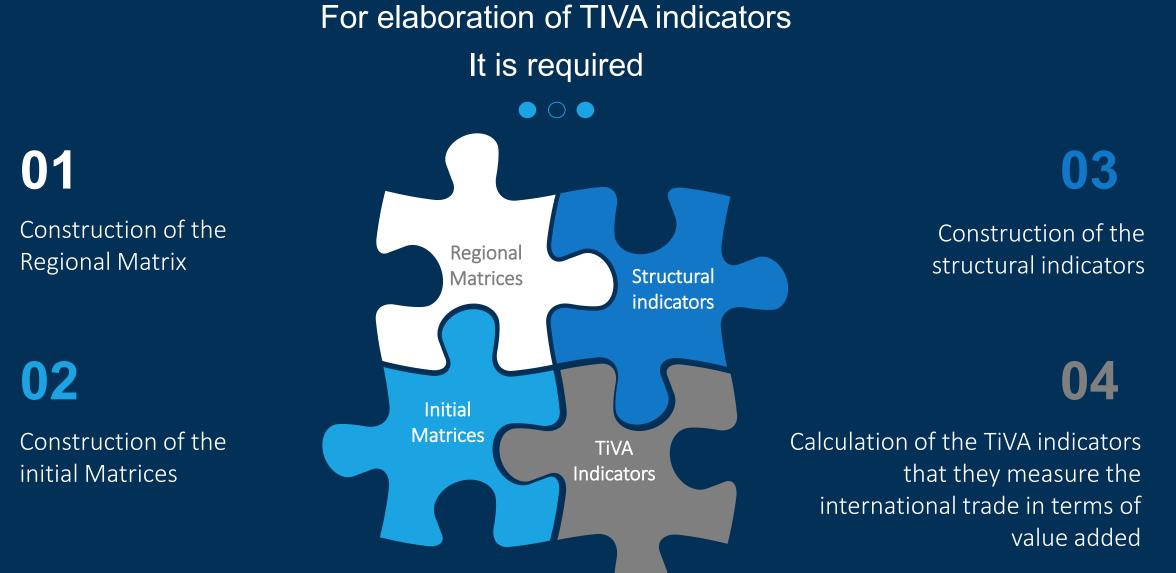
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For the transformation from regional SUT to Regional IOT, it was used the "**Model D**" of **Eurostat's** "Manual of Supply, Use and Input-Output Tables" as a reference, and it was adopted the suppose which assumes that **each product has its own specific sales structure, irrespective of the industry where it is produced.** . FIXED PRODUCT SALES STRUCTURE ASSUMPTION (MODEL D) INDUSTRY BY INDUSTRY

| Acronym | Description | Table |
|---------|--|---|
| Т | Transformation Table | T= inv[diag(q)] * V |
| А | Intermediate input coefficients | A = T * U * inv[(diag(g)] |
| R | Coefficients of Value- Added inputs | R = W * inv[diag(g)] |
| q | Production | q = inv[I - T * U * inv(diag(g))] * T * y |
| В | Intermediate Demand | B = T * B |
| W | Value added | W= W |
| F | Final Demand | F = T * Y |

Source: Manual of Supply, Use and Input-Output Tables, Eurostat







Experimental Statistics



International trade in value added indicators

What do the indicators measure?

71 % Domestic value-added share of gross exports. EX DVA 29 % Foreign valueadded share of gross exports. EX_FVA Domestic value added embodied in foreign final demand. FFD_DVA Domestic value-70 %

added share of

gross imports.

IM DVA

EX_DVA

It measures the total domestic value added generated in the local economy c contained in exports to the partner country p.

EX_FVA

Measures the content of foreign value added in gross exports of intermediate goods and services incorporated in the total gross exports of the local country c.

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DFE_VAD

It measures the domestic value added contained in the final goods and services that local industries export to partner countries.

IM_DVA

It is the domestic value added generated in the local country that returns to the local country c contained in the gross imports of the industry i of the partner country.



SUMMARY OF

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Publishing at the end of 2022:

29 TiVA indicators for North Americawith information from the ICIO for2012 at the experimental area.

A time series from 2012 to 2018 of the same TiVA indicators for North America with information from the SNAM, data from the ICIO-OECD, and treatment of asymmetries of foreign trade.



Experimental Statistics International trade in value added indicators

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| Indicator (Percentage terms) | Canada | Mexico | USA | Rest of the world |
|---|--------|--------|------|----------------------|
| Domestic value-added share of gross exports. DVA | 76.8 | 71.0 | 86.7 | 97.6 |
| Direct domestic industry value added content of gross exports. | 49.6 | 51.0 | 55.4 | 48.3 |
| Foreign value-added share of gross exports. | 20.6 | 29.0 | 23.2 | 22.9 |
| Domestic services value-added share of gross exports, by country. | 36.1 | 28.0 | 44.4 | 25.2 |
| Domestic value-added share of gross imports. | 75.6 | 77.2 | 86.1 | 97.7 |
| Domestic value added embodied in foreign final demand. | 20.7 | 20.8 | 10.0 | 2.7 |
| Distance to final demand* | 1.6 | 1.5 | 1.8 | 2.2 |



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THANK YOU

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